

Proposal Full View

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Applicant Information

Organization Name Tehachapi-Cummings County Water District *
 Tax ID 953676106
 Proposal Name Groundwater Quality Monitoring Program and Cummings Basin Groundwater Model Update *
 Proposal Objective The primary goal of the proposal is to improve groundwater management within the Cummings, Brite, and Tehachapi groundwater basins. This goal would be accomplished through the implementation of two projects, the creation of a Groundwater Quality Monitoring Program and updating the Cummings Basin groundwater model. *

Budget

Other Contribution	\$0.00
Local Contribution	\$0.00
Federal Contribution	\$0.00
Inkind Contribution	\$0.00
Amount Requested	\$250,000.00 *
Total Project Cost	\$250,000.00 *

Geographic Information

Latitude * DD(+/-) 35 MM 6 SS 58
 Longitude * DD(+/-) -118 MM 32 SS 31

Longitude/Latitude Clarification Latitude/Longitude provided is the approximate center of the Brite Basin. The Brite Basin is in the middle of the three basins, with the Cummings Basin to the west and the Tehachapi Basin to the east.

Location

Refer to Exhibit 3.1.

County Kern (portion of) *
 Ground Water Basin Brite Valley, Cummings Valley, Tehachapi Valley East, Tehachapi Valley West
 Hydrologic Region South Lahontan, Tulare Lake
 Watershed 114 7556 Grapevine

Legislative Information

Assembly District 32nd Assembly District *
 Senate District 18th Senate District *
 US Congressional District District 22 (CA) *

Project Information

Project Name Cummings Basin Groundwater Model Update

Implementing Organization	Tehachapi-Cummings County Water District
Secondary Implementing Organization	Stallion Springs CSD, Bear Valley CSD, California Correctional Institution
Proposed Start Date	4/1/2013
Proposed End Date	3/30/2014
Project Scope	Preparation of a groundwater model update.
Project Description	<p>The project consists of updating the Cummings Basin groundwater model that was prepared about ten years ago. For that study, a groundwater flow model was developed for the Cummings Basin and covered a base period from 1981 to 2001. Since that time period, multiple changes to water use and land use have occurred and additional data has been collected that can refine gross assumptions that were made during the preparation of the previous model. The updated model will assist the District and other stakeholders in accurately evaluating the potential impacts on groundwater resources in the Cummings Basin in response to future scenarios, with an emphasis on determining groundwater overdraft, safe yield, pumping and recharge, as well as water quality. After the current condition of the aquifer is generally understood, these future scenarios will be further defined (not a part of this scope of work). As the urban water purveyors, agricultural water users, California Correctional Institution, and private well owners rely upon the Basin for the majority of their water supply, it is extremely important that the Basin is well managed. This tool will help the District and other stakeholders to meet this goal by</p>

	providing useful knowledge regarding the Cummings Basin.
Project Objective	The objectives of the project are to update the existing Cummings Basin groundwater model with the past ten years of data and calibrate the model so that the District can assess the current condition of the Basin. The goal of this effort is to provide TCCWD with a tool to enhance the District's ability to manage and protect the groundwater resource in the Cummings Valley.

Project Benefits Information

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Water Storage -- Groundwater-Water Supply Enhancement	0	Review of groundwater supply vs. demand
Primary	Other-Groundwater Studies	0	Improve groundwater management

Project Objective

Budget

Other Contribution	0
Local Contribution	0
Federal Contribution	0
Inkind Contribution	0
Amount Requested	120730
Total Project Cost	120730

Geographic Information

Latitude DD(+/-)	35	MM 6	SS 56
Longitude DD(+/-)	-118	MM 36	SS 1
Longitude/Latitude Clarification	Approximate center of tl	Location	Refer to Exhibit 3.1.
County Kern (portion of) Ground Water Basin Cummings Valley Hydrologic Region Tulare Lake WaterShed			
114 7556 Grapevine			

Legislative Information

Assembly District	32nd Assembly District
Senate District	18th Senate District
US Congressional District	District 22 (CA)

Project Information

Project Name	Groundwater Quality Monitoring Program
Implementing Organization	Tehachapi-Cummings County Water District
Secondary Implementing Organization	City of Tehachapi, Golden Hills CSD, Stallion Springs CSD, Bear Valley CSD, California Correctional Institution
Proposed Start Date	4/1/2013
Proposed End Date	3/31/2015
Project Scope	The project will consist of developing and implementing a Groundwater Quality Monitoring Program.
Project Description	Groundwater quality is of concern throughout the Cummings, Brite Valley, and Tehachapi Groundwater Basins (Basins). In recent years, at least 5 public water supply wells in these Basins have been shut down due to high nitrates or other constituents. There is currently limited knowledge regarding the transport of water quality constituents within the Basins, much less what the potential future impacts are to the groundwater supply. Because of these groundwater quality issues, an effective Groundwater Quality Monitoring Program (GWQMP) is needed as a first step towards assessing these potential impacts to the groundwater supply. The GWQMP will consist of developing and implementing a plan to monitor select wells within the Basins for certain groundwater quality constituents. Other supporting data and information will also be collected that will aid in future groundwater quality analyses. This data will be incorporated into a regularly updated Groundwater Data Management System that will be integrated into a GIS. The Program is critically needed to better understand and document the reasons for elevated nitrates in certain areas, help predict migration of contaminants, and develop mitigation measures to proactively prevent loss of viable drinking water supplies by improving groundwater quality monitoring in the Basins.
	The goal of the Groundwater Quality Monitoring Program is to improve groundwater quality monitoring and protect groundwater used for drinking water

Project Objective

supply with an emphasis on water quality constituents of concern (in particular nitrates) within the Basins. The Program is expected to result in significant amounts of new knowledge and an achievable improvement in groundwater management in the Tehachapi area.

Project Benefits Information

Project Benefit Type	Benefit Type	Measurement	Description
Primary	Groundwater Management-Groundwater quality samples taken	0	Monitoring of groundwater quality in basin
Primary	Water Storage -- Groundwater-Water Quality Improvement	0	Basis for developing groundwater management measures to improve quality

Project Objective

Budget

Other Contribution	0
Local Contribution	0
Federal Contribution	0
Inkind Contribution	0
Amount Requested	129270
Total Project Cost	129270

Geographic Information

Latitude DD(+/-)	35	MM 6	SS 58
Longitude DD(+/-)	-118	MM 32	SS 31

Longitude/Latitude Clarification Latitude/Longitude provided is the approximate center of the Brite Basin. The Brite Basin is in the mi

County Kern (portion of) Ground Water Basin Brite Valley,Cummings Valley,Tehachapi Valley East,Tehachapi Valley West Hydrologic Region South Lahontan,Tulare Lake WaterShed 114 7556 Grapevine

Legislative Information

Assembly District	32nd Assembly District
Senate District	18th Senate District
US Congressional District	District 22 (CA)

Section : Applicant Information and Question's Tab**APPLICANT INFORMATION AND QUESTION'S TAB****Q1. Applicant Information**

Provide the agency name, address, city, state, and zip code of the applicant submitting the application.

Tehachapi Cummings County Water District, P.O. Box 326, Tehachapi, CA 93581

Q2. Proposal Description:

Provide a brief abstract of the Proposal. This abstract must provide an overview of the proposal including the main issues and priorities addressed in the proposal. Within the abstract, please describe how the proposal relates to the GWMP's BMO's.

The primary goal of the proposal is to improve groundwater management within the Cummings, Brite, and Tehachapi groundwater basins. This goal would be accomplished through the implementation of two projects, the creation of a Groundwater Quality Monitoring Program and updating the Cummings Basin Groundwater Model. Groundwater quality is of concern throughout the Cummings, Brite Valley, and Tehachapi Groundwater Basins (Basins). In recent years, at least 5 public water supply wells in these Basins have been shut down due to high nitrates or other constituents. There is currently limited knowledge regarding the transport of water quality constituents within the Basins, much less what the potential future impacts are to the groundwater supply. Because of these groundwater quality issues, the first project will consist of implementing an effective Groundwater Quality Monitoring Program (GWQMP) as a first step towards assessing these potential impacts to the groundwater supply. The GWQMP will consist of developing and implementing a plan to monitor select wells within the Basins for certain groundwater quality constituents. Other supporting data and information will also be collected that will aid in future groundwater quality analyses. This data will be incorporated into a regularly updated Groundwater Data Management System that will be integrated into a GIS. The Program is critically needed to better understand and document the reasons for elevated nitrates in certain areas, help predict migration of contaminants, and develop mitigation measures to proactively prevent loss of viable drinking water supplies by improving groundwater quality monitoring in the Basins. This Program directly supports the following policy ?Ensure that water quality standards are maintained for existing users and future development and that water-related infrastructure is provided in a n efficient and cost effective manner.? The second project consists of updating the Cummings Basin groundwater model that was prepared about ten years ago. For that study, a groundwater flow model was developed for the Cummings Basin and covered a base period from 1981 to 2001. Since that time period, multiple changes to water use and land use have occurred and additional data has been collected that can refine gross assumptions that were made during the preparation of the previous model. The updated model will assist the District and other stakeholders in accurately evaluating the potential impacts on groundwater resources in the Cummings Basin in response to future scenarios, with an emphasis on determining groundwater overdraft, safe yield, pumping and recharge, as well as water quality. After the current condition of the aquifer is generally understood, these future scenarios will be further defined (not a part of this scope of work). As the urban water purveyors, agricultural water users, California Correctional Institution, and

private well owners rely upon the Basin for the majority of their water supply, it is extremely important that the Basin is well managed. This tool will help the District and other stakeholders to meet this goal by providing useful knowledge regarding the Cummings Basin. This project directly supports the goal ?Encourage water conservation to reduce demand for limited water resources and maintain a balance between water supply and consumption.?

Q3. Project Director:

Provide the name and details (including email) of the person responsible for executing the grant agreement for the applicant. Persons that are subcontractors to be paid by the grant cannot be listed as the Project Director.

John Martin, General Manager, Tehachapi Cummings County Water District, P.O. Box 326, Tehachapi, CA 93581, jmartin@tccwd.com

Q4. Project Manager:

Provide the name and contact information (including email) of the Project Manager from the applicant agency or organization that will be the day-to-day contact on this application.

Rick Iger, Provost & Pritchard Consulting Group, 1800 30th Street, Suite 280, Bakersfield, CA 93301, riger@ppeng.com

Q5. Additional Information:

Based on the region's location, what is the applicable DWR region office (Northern, North Central, South Central, or Southern)? The following link can be used to view each DWR region office boundaries:

http://www.water.ca.gov/groundwater/groundwater_basics/gw_contacts_info.cfm

- 1) ☐ Northern Region
- 2) ☐ North Central Region
- 3) ☒ South Central Region
- 4) ☐ Southern Region

Q6. Additional Information:

Provide the Date of GWMP Adoption, if any, and list the pursuant Water Code Section or other legal Authority in which it was adopted.

The Brite, Cummings, and Tehachapi Basins are adjudicated groundwater basins under California Superior Court Order. Adjudication of the basins was determined to be necessary due to dwindling groundwater supplies. The basins are actively managed by TCCWD, the court designated Watermaster. Since the groundwater basins are managed pursuant to Court Judgments, no additional groundwater management plans are required as AB 3030 allows for this type of alternative structure for management of groundwater basins (Water Code Sections 10750 to 10756). The court judgments for adjudication of the basins are as follows: (1) Brite Groundwater Basin - Judgment was filed in 1970 in the Kern County Superior Court, Case No. 97211. (2) Cummings Groundwater Basin ? Judgment was filed in 1972 in the Kern County Superior Court, Case No. 97209. (3) Tehachapi Basin ? Judgment was filed in 1971 in the California Superior Court, Case No. 97210.

Q7. Additional Information:

Provide a list of documents that support and indicate collaboration with other local public agencies with regard to the management of the affected groundwater basin (e.g., MOUs, MOAs, JPAs, adoption of a GWMP, recognition of county ordinances in permitting processes, or party to a groundwater basin adjudication order).

(1) 2010 Tehachapi Regional Urban Water Management Plan, For Tehachapi-Cummings County Water District, Golden Hills CSD, Stallion Springs CSD, Bear Valley CSD, City of Tehachapi; (2) Brite Groundwater Basin Adjudication Judgment, California Superior Court, Kern County, Case No. 97211, filed December 9, 1970; (3) Tehachapi Groundwater Basin Adjudication Judgment, California Superior Court, Kern County, Case No. 97210, filed March 22, 1971; (4) Tehachapi Groundwater Basin Adjudication - Amendment to Judgment, California Superior Court, Kern County, Case No. 97210, filed on November 20, 1973; (5) Cummings Groundwater Basin Adjudication, California Superior Court, Kern County, Case No. 97209, filed March 6, 1972; (6) Water Availability Preservation Committee, created in early 1990s by TCCWD, Bear Valley CSD, Golden Hills CSD, Stallion Springs CSD, the City of Tehachapi, the County of Kern, and the California Correctional Institute (CCI); (7) Greater Tehachapi Area Specific Plan, Kern County Planning and Community Development, 2011 (as part of the EIR that was prepared for the Plan a Water Supply Assessment was developed, which corroborated with the RUWMP); (8) Kern County Integrated Regional Water Management Plan, adopted January 2012.

Q8. Additional Information

Name the entity(ies) providing the fund(s) reported in the above Budget section under the category "Other Contribution". If there are no "Other Contributions" Please answer this question with, "No Other Contributions".

No Other Contributions

Q9. Eligibility:

List the urban water suppliers that will receive funding from the proposed grant. Please provide the agency name, a contact phone number and email address. Those listed must submit self certification of compliance with CWC §525 et seq. and AB1420, see Attachment 10. If there are none, so indicate.

None, see response to Question 10.

Q10. Eligibility:

Have all of the urban water suppliers, listed in Q9 above, submitted complete 2010 UWMP to DWR? If not, explain why. Have those plans been verified as complete by DWR? If not, explain current status.

Tehachapi-Cummings County Water District, Golden Hills CSD, Stallion Springs CSD, Bear Valley CSD, and the City of Tehachapi conjunctively prepared the 2010 Tehachapi Regional Urban Water Management Plan that was submitted to DWR for review on July 27, 2011. However, none of the participating agencies were required to submit an UWMP, as none of them serve 3,000 or more connections, nor do they supply 3,000 or more acre-feet (AF) of water per year for urban uses. TCCWD provides State Water Project (SWP) water primarily for agriculture but also for urban uses through conjunctive use programs. Currently TCCWD supplies less than 2,500 AF of water for urban uses per year. TCCWD also acts as the court-appointed watermaster for the three adjudicated basins in the Greater Tehachapi Area (GTA), from which the water purveyors produce most of the water delivered in their service areas. However, TCCWD does not supply the agencies with this native groundwater. The retail water purveyors have rights pursuant to the Judgments to exercise their groundwater supplies, which supply is not provided by TCCWD. As confirmed with Peter Brostrom with the Water Use and Efficiency Branch of DWR, based on Water Code Section 10617, TCCWD is not an urban water supplier and is exempt from submitting an UWMP and does not have to comply with AB1420. This exemption is based on TCCWD providing untreated water for recharge that is then accessed by the retail providers through conjunctive use. It should be noted that the purpose of the agencies in submitting the regional plan was to serve as a coordination effort with the local agencies so that the group has a better understanding of the reliability of its supplies and to better manage the water resources of the Tehachapi Area.

Q11. Completeness Check:**Have all of the fields in the application been completed?**

Yes

Q.11. Completeness Check (cont)

If no, please explain. If yes, answer this question with "NA".

NA

Section : Application Attachments Tab

APPLICATION ATTACHMENTS TAB

Attachment 1. Authorizing Documentation**Upload authorizing documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att1_LGA12_TCCWD_AuthDoc_1of2.pdf,Att1_LGA12_TCCWD_AuthDoc_2of2.pdf

Attachment 2. Eligible Applicant Documentation**Upload eligible documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att2_LGA12_TCCWD_EligDoc_1of1.pdf

Attachment 3. Status of GWMP**Upload the GWMP documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments:

Att3_LGA12_TCCWD_GWMP_1of5.pdf,Att3_LGA12_TCCWD_GWMP_2of5.pdf,Att3_LGA12_TCCWD_GWMP_3of5.pdf,Att3_LGA12_TCCWD_GWMP_4of5.pdf,Att3_LGA12_TCCWD_GWMP_5of5.pdf

Attachment 4. Project Description**Upload project description here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments:

Att4_LGA12_TCCWD_ProjD_1of5.pdf,Att4_LGA12_TCCWD_ProjD_2of5.pdf,Att4_LGA12_TCCWD_ProjD_3of5.pdf,Att4_LGA12_TCCWD_ProjD_4of5.pdf,Att4_LGA12_TCCWD_ProjD_5of5.pdf

Attachment 5. Work Plan**Upload work plan here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments:

Att5_LGA12_TCCWD_WrkPln_1of5.pdf,Att5_LGA12_TCCWD_WrkPln_2of5.pdf,Att5_LGA12_TCCWD_WrkPln_3of5.pdf,Att5_LGA12_TCCWD_WrkPln_4of5.pdf,Att5_LGA12_TCCWD_WrkPln_5of5.pdf

Attachment 6. Budget**Upload budget here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att6_LGA12_TCCWD_BUDGET_1of4.pdf,Att6_LGA12_TCCWD_BUDGET_2of4.pdf,Att6_LGA12_TCCWD_BUDGET_3of4.pdf,Att6_LGA12_TCCWD_BUDGET_4of4.pdf

Attachment 7. Schedule**Upload schedule here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att7_LGA12_TCCWD_SCHED_1of2.pdf,Att7_LGA12_TCCWD_SCHED_2of2.pdf

Attachment 8. Quality Assurance**Upload quality assurance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att8_LGA12_TCCWD_QA_1of1.pdf

Attachment 9. Past Performance**Upload past performance documentation here. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att9_LGA12_TCCWD_PERFORM_2of2.pdf,Att9_LGA12_TCCWD_PERFORM_1of2.pdf

Attachment 10. AB1420 and Water Meter Implementation Compliance**Upload 1420 and water meter implementation documentation here, if applicable. Ensure file name is consistent with the LGA Grant PSP, Section II. "How to Submit An Application".**

Last Uploaded Attachments: Att10_LGA12_TCCWD_1420_1of1.pdf